FIBERS SITE GROUP

May 11, 2015

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA
Response and Remediation Branch
U.S Environmental Protection Agency
City View Plaza II - Suite 7000
48 RD, 165 Km. 1.2
Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – April 2015
Fibers Public Supply Wells Site
Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *United States v. Anaquest Caribe, Inc. et al,* Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM
Fibers Site Group Project Coordinator
EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only
Ms. Evelyn Rivera-Ocasio, Assitant Regional Counsel – Carribean Programs – via email only
Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)
Amarilis Rodríguez Méndez, State Remedial Project Manager, Puerto Rico Environmental Quality Board- via email only
Ms. Katherine Mishkin, Hydrolgeologist, USEPA Superfund Technical Support Section – via email only
Ms. Enid Diaz, Departmento de Recursos Naturales y Ambientales
Mr. Jorge Morales, PRIDCO - via email only
Mr. Joel Melendez Rodriguez, PRIDCO - via email only
Ms. Ana Palou Balsa, PRIDCO – via email only
Mr. Dan Vineyard, Jackson Walker- via email only
James Kirschner, Arcadis - via email only

RD/RA Monthly Report – April 2015
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

A QED Environmental Systems, Inc. (QED) EZ-48.4SS Tray air stripper assembly is temporarily stored at the Baxter-Guayama facility at the Fibers Site.

The United States Environmental Protection Agency (USEPA) granted approval (via an April 16th email to the Group's Project Coordinator) to allow the Fibers Group to proceed with the demolition of the existing air stripper and its replacement with a low profile air stripper. The USEPA did not have any comments on the Groundwater Extraction and Treatment System Basis of Design (ARCADIS, March 2015) or the preliminary construction design drawings (90%) that included details for the installation of the new air stripper remediation system, and a treated effluent water pipeline to the Phillips Ditch located southwest of the Chevron Phillips Chemical Company Puerto Rico CORE (CORE) facility.

Demolition of the existing air stripper commenced on April 21, 2015 and should be completed in mid-May, 2015.

The Fibers Group is working with representatives of the Puerto Rico Land Administration (PRLA) and Puerto Rico Industrial Development Company (PRIDCO) to obtain easements for the proposed treated effluent water pipeline at the CORE facility and treated water discharge into the Phillips Ditch.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Concrete sump rinsate sampling (within the treatment system compound) as part of the demolition activities was conducted on April 27, 2015. A copy of the laboratory analytical report is attached.

(c) List of all work plans, plans and other deliverables completed and submitted.

No work plans, plans, or any other deliverables were completed and submitted in April, 2015.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

The first semi-annual groundwater monitoring and sampling event of 2015 is ongoing and the sampling effort should be completed in May, 2015.

Submit the treatment facility 100% CONSTRUCTION DRAWINGS to the USEPA in preparation for restart of the treatment system to the Phillips Ditch in accordance with the proposed schedule submitted on March 30, 2015.

Meet with the Oficina de Gerencia de Permisos (OGPe) and submit the treatment facility 100% CONSTRUCTION DRAWINGS.

Commence construction activities to install the new QED air stripper in accordance with the 100% CONSTRUCTION DRAWINGS. Procure necessary equipment to be manufactured, shipped and installed at the Fibers Site.

Baxter International, Inc. (Baxter) contracted with Environmental Resource Technologies (ERTEC) to conduct a subsurface soil investigation at the Baxter-Guayama facility on the Fibers Site. The subsurface investigation commenced on February 3, 2015. On behalf of Baxter, ERTEC's subsurface soil investigation effort includes drilling 22 soil borings at the Baxter-Guayama facility. The attached Figure depicts proposed ERTEC soil boring locations. Validated laboratory analysis for the samples is expected to be completed in the next 6 weeks.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

The Fibers Group submitted the following correspondence to the USEPA and Puerto Rico Environmental Quality Board (EQB) to expedite Agency concurrence with the treated water discharge constituent monitoring requirements and proposed discharge to the Phillips Ditch:

- *Remediation System Air Stripper Effluent Concentrations Compared to ARAR-Based Discharge Criteria*. October 14, 2014 (sent via e-mail to USEPA and EQB on October 14, 2014).

At this time, the Fibers Group has not received a response from the Agencies regarding the ARAR-Based Discharge Criteria document. Coordination with the Agencies on this submittal, if any material comments need to be addressed, is necessary to move forward with the CERCLA 121(e) permit equivalency and promptly returning the treatment system to service.

The Fibers Group submitted a letter (March 30, 2015) to the USEPA requesting a meeting to discuss treated water discharge alternatives, including any appropriate interim alternative (letter submitted via e-mail on March 30, 2015).

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.

ATTACHMENT 1

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

April 29, 2015

David Howard
ARCADIS
410 North 44th St.
Suite 1000
Phoenix, AZ 85008

RE: Project: Fibers
Pace Project No.: 2019118

Dear David Howard:
Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Justin L. Stock
justin.stock@pacelabs.com
Project Manager

Enclosures

cc: Cassandra McCloud
Marla Miller, ARCADIS U.S.
Monica Rappaport, ARCADIS
Elvin Varela, ARCADIS

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

CERTIFICATIONS

Project: Fibers
Pace Project No.: 2019118

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch: 11277CA
Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Pennsylvania Dept. of Env Protection (NELAC): 68-04202
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

SAMPLE SUMMARY

Project: Fibers
Pace Project No.: 2019118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2019118001	**TB-042715**	Water	04/27/15 00:00	04/28/15 08:40
2019118002	**FEB-042715**	Water	04/27/15 13:15	04/28/15 08:40
2019118003	**LSW-042715**	Water	04/27/15 15:13	04/28/15 08:40

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(504)469-0333

SAMPLE ANALYTE COUNT

Project: Fibers
Pace Project No.: 2019118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2019118001	**TB-042715**	EPA 5030B/8260	MLS	56	PASI-N
2019118002	**FEB-042715**	EPA 5030B/8260	MLS	56	PASI-N
2019118003	**LSW-042715**	EPA 5030B/8260	MLS	56	PASI-N

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PROJECT NARRATIVE

Project: Fibers
Pace Project No.: 2019118

Method: **EPA 5030B/8260**
Description: 8260 MSV HALOETHERS
Client: ARCADIS
Date: April 29, 2015

General Information:
3 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/2944

C9: Common Laboratory Contaminant.

- BLANK (Lab ID: 115595)
  - Methylene Chloride

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
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(504)469-0333

ANALYTICAL RESULTS

Project: Fibers
Pace Project No.: 2019118

Sample: TB-042715 **Lab ID: 2019118001** Collected: 04/27/15 00:00 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		04/28/15 17:34	67-64-1	
Acrolein	ND	ug/L	8.0	1		04/28/15 17:34	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		04/28/15 17:34	107-13-1	
Benzene	ND	ug/L	1.0	1		04/28/15 17:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		04/28/15 17:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/28/15 17:34	75-25-2	
Bromomethane	ND	ug/L	1.0	1		04/28/15 17:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		04/28/15 17:34	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		04/28/15 17:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/28/15 17:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/28/15 17:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/28/15 17:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/28/15 17:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/28/15 17:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		04/28/15 17:34	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		04/28/15 17:34	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/28/15 17:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/28/15 17:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/28/15 17:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 17:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 17:34	10061-02-6	
Enflurane	ND	ug/L	1.0	1		04/28/15 17:34	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		04/28/15 17:34	100-41-4	
Haloether 229	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 406	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 421	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 427	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 428	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 508	ND	ug/L	1.0	1		04/28/15 17:34		
Haloether 528	ND	ug/L	1.0	1		04/28/15 17:34		
Halomar	ND	ug/L	1.0	1		04/28/15 17:34		
2-Hexanone	ND	ug/L	2.0	1		04/28/15 17:34	591-78-6	
Isoflurane	ND	ug/L	1.0	1		04/28/15 17:34		
Methoxyflurane	ND	ug/L	1.0	1		04/28/15 17:34	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		04/28/15 17:34	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		04/28/15 17:34	108-10-1	
Styrene	ND	ug/L	1.0	1		04/28/15 17:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/28/15 17:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/28/15 17:34	127-18-4	
Toluene	ND	ug/L	1.0	1		04/28/15 17:34	108-88-3	
Total Haloether	ND	ug/L	1.0	1		04/28/15 17:34		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/28/15 17:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/28/15 17:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/28/15 17:34	79-01-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS

Project: Fibers
Pace Project No.: 2019118

Sample: TB-042715 **Lab ID: 2019118001** Collected: 04/27/15 00:00 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		04/28/15 17:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/28/15 17:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/28/15 17:34	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		04/28/15 17:34	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/28/15 17:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/28/15 17:34	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%.	79-119	1		04/28/15 17:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	68-124	1		04/28/15 17:34	460-00-4	
Dibromofluoromethane (S)	94	%.	72-126	1		04/28/15 17:34	1868-53-7	

Sample: FEB-042715 **Lab ID: 2019118002** Collected: 04/27/15 13:15 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		04/28/15 17:55	67-64-1	
Acrolein	ND	ug/L	8.0	1		04/28/15 17:55	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		04/28/15 17:55	107-13-1	
Benzene	ND	ug/L	1.0	1		04/28/15 17:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		04/28/15 17:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/28/15 17:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		04/28/15 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		04/28/15 17:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		04/28/15 17:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/28/15 17:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/28/15 17:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/28/15 17:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/28/15 17:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/28/15 17:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		04/28/15 17:55	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		04/28/15 17:55	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/28/15 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/28/15 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/28/15 17:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 17:55	10061-02-6	
Enflurane	ND	ug/L	1.0	1		04/28/15 17:55	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		04/28/15 17:55	100-41-4	
Haloether 229	ND	ug/L	1.0	1		04/28/15 17:55		
Haloether 406	ND	ug/L	1.0	1		04/28/15 17:55		
Haloether 421	ND	ug/L	1.0	1		04/28/15 17:55		
Haloether 427	ND	ug/L	1.0	1		04/28/15 17:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS

Project: Fibers
Pace Project No.: 2019118

Sample: FEB-042715 **Lab ID: 2019118002** Collected: 04/27/15 13:15 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		04/28/15 17:55		
Haloether 508	ND	ug/L	1.0	1		04/28/15 17:55		
Haloether 528	ND	ug/L	1.0	1		04/28/15 17:55		
Halomar	ND	ug/L	1.0	1		04/28/15 17:55		
2-Hexanone	ND	ug/L	2.0	1		04/28/15 17:55	591-78-6	
Isoflurane	ND	ug/L	1.0	1		04/28/15 17:55		
Methoxyflurane	ND	ug/L	1.0	1		04/28/15 17:55	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		04/28/15 17:55	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		04/28/15 17:55	108-10-1	
Styrene	ND	ug/L	1.0	1		04/28/15 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/28/15 17:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/28/15 17:55	127-18-4	
Toluene	ND	ug/L	1.0	1		04/28/15 17:55	108-88-3	
Total Haloether	ND	ug/L	1.0	1		04/28/15 17:55		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/28/15 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/28/15 17:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/28/15 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/28/15 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/28/15 17:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/28/15 17:55	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		04/28/15 17:55	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/28/15 17:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/28/15 17:55	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		04/28/15 17:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	68-124	1		04/28/15 17:55	460-00-4	
Dibromofluoromethane (S)	95	%.	72-126	1		04/28/15 17:55	1868-53-7	

Sample: LSW-042715 **Lab ID: 2019118003** Collected: 04/27/15 15:13 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		04/28/15 18:16	67-64-1	
Acrolein	ND	ug/L	8.0	1		04/28/15 18:16	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		04/28/15 18:16	107-13-1	
Benzene	ND	ug/L	1.0	1		04/28/15 18:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		04/28/15 18:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/28/15 18:16	75-25-2	
Bromomethane	ND	ug/L	1.0	1		04/28/15 18:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		04/28/15 18:16	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		04/28/15 18:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/28/15 18:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/28/15 18:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/28/15 18:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/28/15 18:16	67-66-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS

Project: Fibers
Pace Project No.: 2019118

Sample: LSW-042715 **Lab ID: 2019118003** Collected: 04/27/15 15:13 Received: 04/28/15 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		04/28/15 18:16	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		04/28/15 18:16	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		04/28/15 18:16	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/28/15 18:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/28/15 18:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/28/15 18:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/28/15 18:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/28/15 18:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/28/15 18:16	10061-02-6	
Enflurane	ND	ug/L	1.0	1		04/28/15 18:16	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		04/28/15 18:16	100-41-4	
Haloether 229	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 406	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 421	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 427	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 428	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 508	ND	ug/L	1.0	1		04/28/15 18:16		
Haloether 528	ND	ug/L	1.0	1		04/28/15 18:16		
Halomar	ND	ug/L	1.0	1		04/28/15 18:16		
2-Hexanone	ND	ug/L	2.0	1		04/28/15 18:16	591-78-6	
Isoflurane	ND	ug/L	1.0	1		04/28/15 18:16		
Methoxyflurane	ND	ug/L	1.0	1		04/28/15 18:16	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		04/28/15 18:16	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		04/28/15 18:16	108-10-1	
Styrene	ND	ug/L	1.0	1		04/28/15 18:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/28/15 18:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/28/15 18:16	127-18-4	
Toluene	ND	ug/L	1.0	1		04/28/15 18:16	108-88-3	
Total Haloether	ND	ug/L	1.0	1		04/28/15 18:16		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/28/15 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/28/15 18:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/28/15 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/28/15 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/28/15 18:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/28/15 18:16	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		04/28/15 18:16	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/28/15 18:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/28/15 18:16	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		04/28/15 18:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	68-124	1		04/28/15 18:16	460-00-4	
Dibromofluoromethane (S)	95	%.	72-126	1		04/28/15 18:16	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA

Project: Fibers
Pace Project No.: 2019118

QC Batch: MSV/2944 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV
Associated Lab Samples: 2019118001, 2019118002, 2019118003

METHOD BLANK: 115595 Matrix: Water
Associated Lab Samples: 2019118001, 2019118002, 2019118003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/28/15 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/28/15 15:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/28/15 15:29	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/28/15 15:29	
1,1-Dichloroethane	ug/L	ND	1.0	04/28/15 15:29	
1,1-Dichloroethene	ug/L	ND	1.0	04/28/15 15:29	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/28/15 15:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/28/15 15:29	
1,2-Dichloropropane	ug/L	ND	1.0	04/28/15 15:29	
2-Butanone (MEK)	ug/L	ND	2.0	04/28/15 15:29	
2-Hexanone	ug/L	ND	2.0	04/28/15 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	04/28/15 15:29	
Acetone	ug/L	ND	4.0	04/28/15 15:29	
Acrolein	ug/L	ND	8.0	04/28/15 15:29	
Acrylonitrile	ug/L	ND	4.0	04/28/15 15:29	
Benzene	ug/L	ND	1.0	04/28/15 15:29	
Bromodichloromethane	ug/L	ND	1.0	04/28/15 15:29	
Bromoform	ug/L	ND	1.0	04/28/15 15:29	
Bromomethane	ug/L	ND	1.0	04/28/15 15:29	
Carbon disulfide	ug/L	ND	1.0	04/28/15 15:29	
Carbon tetrachloride	ug/L	ND	1.0	04/28/15 15:29	
Chlorobenzene	ug/L	ND	1.0	04/28/15 15:29	
Chloroethane	ug/L	ND	1.0	04/28/15 15:29	
Chloroform	ug/L	ND	1.0	04/28/15 15:29	
Chloromethane	ug/L	ND	1.0	04/28/15 15:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/28/15 15:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/28/15 15:29	
Dibromochloromethane	ug/L	ND	1.0	04/28/15 15:29	
Dibromomethane	ug/L	ND	1.0	04/28/15 15:29	
Enflurane	ug/L	ND	1.0	04/28/15 15:29	
Ethylbenzene	ug/L	ND	1.0	04/28/15 15:29	
Haloether 229	ug/L	ND	1.0	04/28/15 15:29	
Haloether 406	ug/L	ND	1.0	04/28/15 15:29	
Haloether 421	ug/L	ND	1.0	04/28/15 15:29	
Haloether 427	ug/L	ND	1.0	04/28/15 15:29	
Haloether 428	ug/L	ND	1.0	04/28/15 15:29	
Haloether 508	ug/L	ND	1.0	04/28/15 15:29	
Haloether 528	ug/L	ND	1.0	04/28/15 15:29	
Halomar	ug/L	ND	1.0	04/28/15 15:29	
Isoflurane	ug/L	ND	1.0	04/28/15 15:29	
m&p-Xylene	ug/L	ND	2.0	04/28/15 15:29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA

Project: Fibers
Pace Project No.: 2019118

METHOD BLANK: 115595 Matrix: Water
Associated Lab Samples: 2019118001, 2019118002, 2019118003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND	1.0	04/28/15 15:29	
Methylene Chloride	ug/L	ND	5.0	04/28/15 15:29	B,C9
o-Xylene	ug/L	ND	1.0	04/28/15 15:29	
Styrene	ug/L	ND	1.0	04/28/15 15:29	
Tetrachloroethene	ug/L	ND	1.0	04/28/15 15:29	
Toluene	ug/L	ND	1.0	04/28/15 15:29	
Total Haloether	ug/L	ND	1.0	04/28/15 15:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/28/15 15:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/28/15 15:29	
Trichloroethene	ug/L	ND	1.0	04/28/15 15:29	
Trichlorofluoromethane	ug/L	ND	1.0	04/28/15 15:29	
Vinyl chloride	ug/L	ND	1.0	04/28/15 15:29	
4-Bromofluorobenzene (S)	%.	103	68-124	04/28/15 15:29	
Dibromofluoromethane (S)	%.	97	72-126	04/28/15 15:29	
Toluene-d8 (S)	%.	99	79-119	04/28/15 15:29	

LABORATORY CONTROL SAMPLE: 115596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	15-179	
1,1,2-Trichloroethane	ug/L	50	49.1	98	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	47.8	96	38-121	
1,1-Dichloroethane	ug/L	50	48.7	97	63-129	
1,1-Dichloroethene	ug/L	50	46.3	93	51-139	
1,2,3-Trichloropropane	ug/L	50	47.9	96	13-187	
1,2-Dichloroethane	ug/L	50	45.0	90	57-148	
1,2-Dichloropropane	ug/L	50	49.1	98	66-128	
2-Butanone (MEK)	ug/L	50	48.8	98	32-183	
2-Hexanone	ug/L	50	51.0	102	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.8	100	26-171	
Acetone	ug/L	50	46.8	94	22-165	
Acrolein	ug/L	100	34.9	35	10-131	
Acrylonitrile	ug/L	50	49.6	99	18-149	
Benzene	ug/L	50	52.8	106	62-131	
Bromodichloromethane	ug/L	50	48.0	96	69-132	
Bromoform	ug/L	50	50.3	101	35-166	
Bromomethane	ug/L	50	50.3	101	34-158	
Carbon disulfide	ug/L	50	43.7	87	31-128	
Carbon tetrachloride	ug/L	50	48.0	96	54-144	
Chlorobenzene	ug/L	50	48.8	98	70-127	
Chloroethane	ug/L	50	50.5	101	17-195	
Chloroform	ug/L	50	47.2	94	73-134	
Chloromethane	ug/L	50	48.8	98	17-153	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA

Project: Fibers
Pace Project No.: 2019118

LABORATORY CONTROL SAMPLE: 115596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	47.4	95	68-129	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	72-138	
Dibromochloromethane	ug/L	50	49.0	98	49-146	
Dibromomethane	ug/L	50	46.7	93	56-145	
Enflurane	ug/L	50	48.5	97	56-135	
Ethylbenzene	ug/L	50	47.3	95	66-126	
Haloether 229	ug/L	50	42.1	84	62-123	
Haloether 406	ug/L	50	49.7	99	62-134	
Haloether 421	ug/L	50	48.5	97	70-128	
Haloether 427	ug/L	50	49.4	99	69-153	
Haloether 428	ug/L	50	49.5	99	70-134	
Haloether 508	ug/L	50	52.3	105	52-139	
Haloether 528	ug/L	50	53.1	106	48-157	
Halomar	ug/L	50	49.0	98	62-128	
Isoflurane	ug/L	50	51.8	104	61-132	
m&p-Xylene	ug/L	100	99.7	100	65-129	
Methoxyflurane	ug/L	50	49.6	99	72-124	
Methylene Chloride	ug/L	50	47.3	95	46-168	
o-Xylene	ug/L	50	50.8	102	65-124	
Styrene	ug/L	50	52.5	105	72-133	
Tetrachloroethene	ug/L	50	50.8	102	46-157	
Toluene	ug/L	50	48.9	98	69-126	
Total Haloether	ug/L		543			
trans-1,2-Dichloroethene	ug/L	50	47.6	95	60-129	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	59-149	
Trichloroethene	ug/L	50	46.3	93	67-132	
Trichlorofluoromethane	ug/L	50	55.8	112	39-171	
Vinyl chloride	ug/L	50	45.1	90	27-149	
4-Bromofluorobenzene (S)	%.			99	68-124	
Dibromofluoromethane (S)	%.			94	72-126	
Toluene-d8 (S)	%.			97	79-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115597 115598

Parameter	Units	2018969003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	55.5	51.4	111	103	54-137	8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.8	47.9	104	96	15-187	8	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.6	48.5	105	97	59-148	8	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	55.3	50.2	111	100	40-117	10	20	
1,1-Dichloroethane	ug/L	ND	50	50	54.9	50.2	110	100	59-133	9	20	
1,1-Dichloroethene	ug/L	ND	50	50	53.8	48.3	108	97	44-146	11	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.9	49.3	106	99	14-199	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	49.3	44.9	99	90	56-154	9	20	
1,2-Dichloropropane	ug/L	ND	50	50	54.3	49.7	109	99	62-135	9	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA

Project: Fibers
Pace Project No.: 2019118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115597 115598

Parameter	Units	2018969003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	50	50	51.2	48.7	102	97	20-205	5	20	
2-Hexanone	ug/L	ND	50	50	55.8	53.0	112	106	25-189	5	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	54.7	51.2	109	102	23-184	7	20	
Acetone	ug/L	ND	50	50	51.9	47.3	101	92	11-217	9	20	
Acrolein	ug/L	ND	100	100	101	95.0	101	95	10-142	6	20	
Acrylonitrile	ug/L	ND	50	50	52.7	49.5	105	99	20-164	6	20	
Benzene	ug/L	ND	50	50	60.3	54.9	121	110	52-141	9	20	
Bromodichloromethane	ug/L	ND	50	50	53.4	49.1	106	98	70-134	8	20	
Bromoform	ug/L	ND	50	50	54.3	50.1	109	100	37-171	8	20	
Bromomethane	ug/L	ND	50	50	54.2	51.6	108	103	34-155	5	20	
Carbon disulfide	ug/L	ND	50	50	54.2	46.0	108	92	28-130	17	20	
Carbon tetrachloride	ug/L	ND	50	50	54.9	50.3	110	101	48-146	9	20	
Chlorobenzene	ug/L	ND	50	50	55.2	50.3	110	101	67-129	9	20	
Chloroethane	ug/L	ND	50	50	58.9	52.5	118	105	12-192	11	20	
Chloroform	ug/L	3.1	50	50	54.2	49.4	102	92	66-143	9	20	
Chloromethane	ug/L	ND	50	50	54.7	49.6	109	99	14-155	10	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.9	48.5	106	97	56-141	9	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.1	49.4	108	99	70-139	9	20	
Dibromochloromethane	ug/L	ND	50	50	53.7	49.5	107	99	50-150	8	20	
Dibromomethane	ug/L	ND	50	50	50.9	47.0	102	94	58-153	8	20	
Enflurane	ug/L	ND	50	50	53.5	48.8	106	96	63-126	9	20	
Ethylbenzene	ug/L	ND	50	50	53.8	49.6	108	99	57-135	8	20	
Haloether 229	ug/L	10.7	50	50	58.1	56.9	95	92	56-127	2	20	
Haloether 406	ug/L	ND	50	50	56.0	55.6	111	111	68-128	1	20	
Haloether 421	ug/L	ND	50	50	52.0	48.3	104	97	74-120	7	20	
Haloether 427	ug/L	ND	50	50	52.3	49.3	105	99	78-120	6	20	
Haloether 428	ug/L	ND	50	50	52.8	49.4	106	99	74-125	7	20	
Haloether 508	ug/L	10.5	50	50	69.6	64.6	118	108	28-156	8	20	
Haloether 528	ug/L	ND	50	50	55.9	51.7	111	103	45-142	8	20	
Halomar	ug/L	ND	50	50	53.0	49.0	105	97	67-123	8	20	
Isoflurane	ug/L	32.7	50	50	88.2	79.9	111	94	45-140	10	20	
m&p-Xylene	ug/L	ND	100	100	113	104	113	104	56-136	8	20	
Methoxyflurane	ug/L	ND	50	50	51.9	48.5	104	97	75-119	7	20	
Methylene Chloride	ug/L	ND	50	50	51.6	46.2	102	91	45-166	11	20	
o-Xylene	ug/L	ND	50	50	57.4	52.9	115	106	57-133	8	20	
Styrene	ug/L	ND	50	50	58.6	53.3	117	107	58-144	9	20	
Tetrachloroethene	ug/L	ND	50	50	59.5	54.7	118	108	48-143	8	20	
Toluene	ug/L	ND	50	50	55.7	50.6	111	101	59-136	10	20	
Total Haloether	ug/L	53.9			643	602				7		
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.8	49.9	112	100	57-132	11	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	54.4	49.8	109	100	59-154	9	20	
Trichloroethene	ug/L	ND	50	50	53.6	48.3	107	97	58-140	10	20	
Trichlorofluoromethane	ug/L	ND	50	50	62.7	57.1	125	114	24-175	9	20	
Vinyl chloride	ug/L	ND	50	50	51.7	46.6	103	93	21-150	11	20	
4-Bromofluorobenzene (S)	%.						113	99	68-124			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA

Project: Fibers
Pace Project No.: 2019118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115597 115598

Parameter	Units	2018969003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						103	91	72-126			
Toluene-d8 (S)	%.						107	95	79-119			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALIFIERS

Project: Fibers
Pace Project No.: 2019118

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N	Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fibers
Pace Project No.: 2019118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2019118001	**TB-042715**	EPA 5030B/8260	MSV/2944		
2019118002	**FEB-042715**	EPA 5030B/8260	MSV/2944		
2019118003	**LSW-042715**	EPA 5030B/8260	MSV/2944		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

WO# : 2019118

2019118

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	ARCADIS	Report To:	David Howard	Attention:	Accounts Payable
Address:	410 North 44th St.	Copy To:	Cassandra McCloud	Company Name:	Arcadis
	Phoenix, AZ 85008			Address:	
Email To:	david.howard@arcadis-us.com	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	~~4SAR2015~~	Pace Project Manager:	justin.stock@pacelabs.com,
Requested Due Date:	Rush	Project #:	CO001911.0002	Pace Profile #:	

Regulatory Agency

State / Location: PR

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Haloethers	2320 Alkalinity	5310 TOC	ASTM D516 Sulfate	4500 Nitrate	4500 Nitrite	6010 Dissolved Metals	6010 Total Metals	RSK Methane	Residual Chlorine (Y/N)
1	TB-042715	WT				4-27-15	–		2										X									
2	FEB-042715	WT				4-27-15	1315		3				X						X									
3	LSW-042715	WT				4-27-15	1515		3				Y						X									
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Rush	[illegible] / Arcadis	4-27-15	1710	[illegible] / PACE	4/27/15	1710	3	Y	N	Y
	[illegible] / PACE	4/27/15	~~840~~ 900	FedEx	4/28/15	~~840~~ 840	10	Y	Y	Y
	FedEx	4/28/15	4/28/15		4/28/15	840				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: E. Dalgado / F. Colom

SIGNATURE of SAMPLER: [signature] DATE Signed: April 27-15

WO# : 2019118

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Recei

PM: JLS Due Date: 04/29/15
CLIENT: 20-CHEV-ARC ARCADIS

Project :

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☒Yes ☐No

Therometer Used: ☐ Therm Fisher IR 5 ☐ Therm Fisher IR 6 ☒ Therm Fisher IR 7

Type of Ice: (Wet) Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and Initials of person examining contents: 04-28-15 JH

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☒Yes ☐No ☐N/A	1
Chain of Custody Present:	☒Yes ☐No ☐N/A	2
Chain of Custody Complete:	☒Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	6
Sufficient Volume:	☒Yes ☐No ☐N/A	7
Correct Containers Used:	☒Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☒N/A	9
Sample Labels match COC:	☒Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☒Yes ☐No ☐N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☒N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14
Trip Blank Present:	☒Yes ☐No	15

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: (24 Hour Turn)

ATTACHMENT 2

BAXTER INTERNATIONAL INC.

CURRENT DRUM STORAGE AREA

ISOFLURANE/DESFLURANE AREA

EXPECTED FORMER DRUM STORAGE/ACETONE TANK AREA

FORMER DRUM STORAGE BUILDING

SUMPS AREA

PR-3

CURRENT DRUM STORAGE AREA

EXPANDED VIEW SCALE
0 50' 100'
GRAPHIC SCALE

EXPECTED FORMER DRUM STORAGE/ACETONE TANK AREA

DESFLURANE BUILDING

ISOFLURANE BUILDING

ISOFLURANE/DESFLURANE AREA

FORMER DRUM STORAGE BUILDING

SUMPS AREA

N

0 200' 400'
GRAPHIC SCALE

LEGEND:

- PROPERTY BOUNDARY
- FENCE
- ROAD
- ELECTRIC POLE
- LAMP POLE
- SWALE
- DIRT ROAD
- RAILROAD TRACKS
- GROUNDWATER MONITOR WELL
- GROUNDWATER EXTRACTION WELL
- GROUNDWATER PRODUCTION WELL
- GROUNDWATER MONITOR WELL CLUSTER
- GROUNDWATER PRODUCTION WELL (CURRENTLY NOT IN USE)
- HPT-14 HYDRAULIC PROFILE TOOL (HPT) PROBE LOCATION
- HPT-20-GW HPT PROBE LOCATION WITH GROUNDWATER SAMPLE
- ERTEC PROPOSED ERTEC SOIL BORING LOCATION
- PR-3 PUERTO RICO HIGHWAY 3

ELECTRONIC FILE FROM CARIBBEAN AERIAL SURVEYS, INC. DATED MARCH 2011.
FILENAME: 2772-ALL-NAD83-METER-ADJUST.
ZONE: 5200-PUERTO RICO/VIRGIN ISLANDS
HORIZONTAL DATUM: STATE PLANES NAD83 U.S. SURVEY FEET
VERTICAL DATUM: NGVD29

SCALE:	NTS
REV:	WM
FILE:	FIG
DWG. BY:	EGN
JOB:	E145326

FIGURE - PROPOSED SOIL BORING LOCATIONS
BAXTER GUAYAMA
GUAYAMA, PUERTO RICO

ERTEC ENVIRONMENTAL RESOURCE TECHNOLOGIES